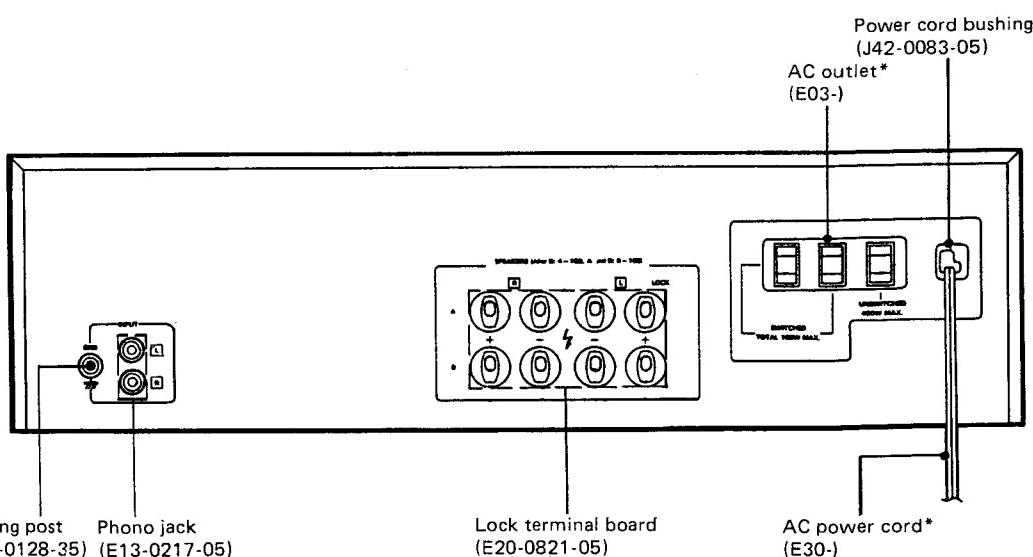
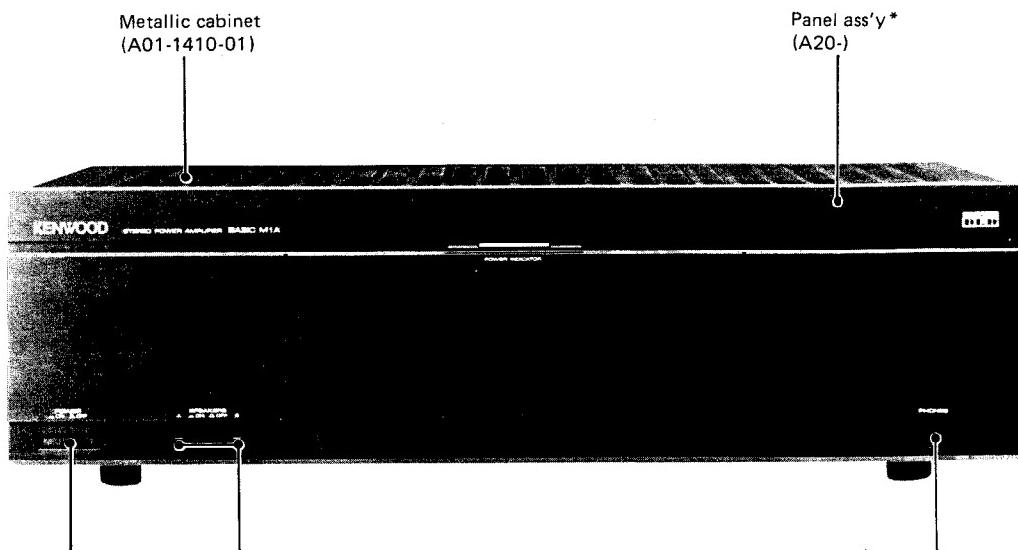


# SERVICE MANUAL

KENWOOD

BASIC M1A

## STEREO POWER AMPLIFIER

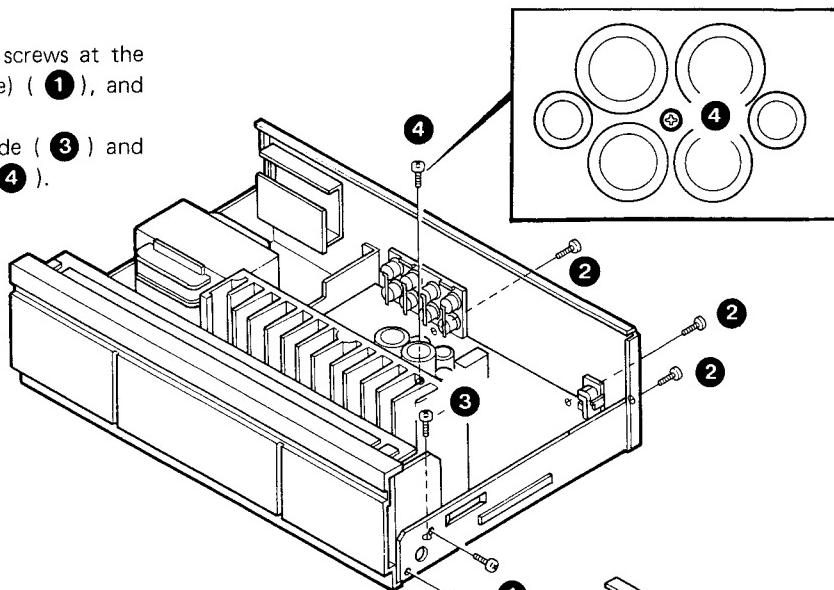


\* Refer to parts list on page 6.

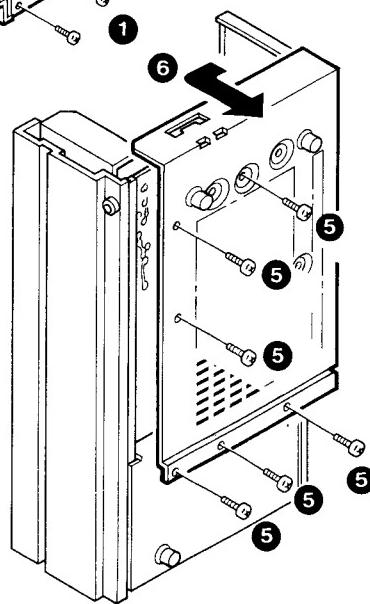
## DISASSEMBLY FOR REPAIR

### DISASSEMBLY FOR REPAIR

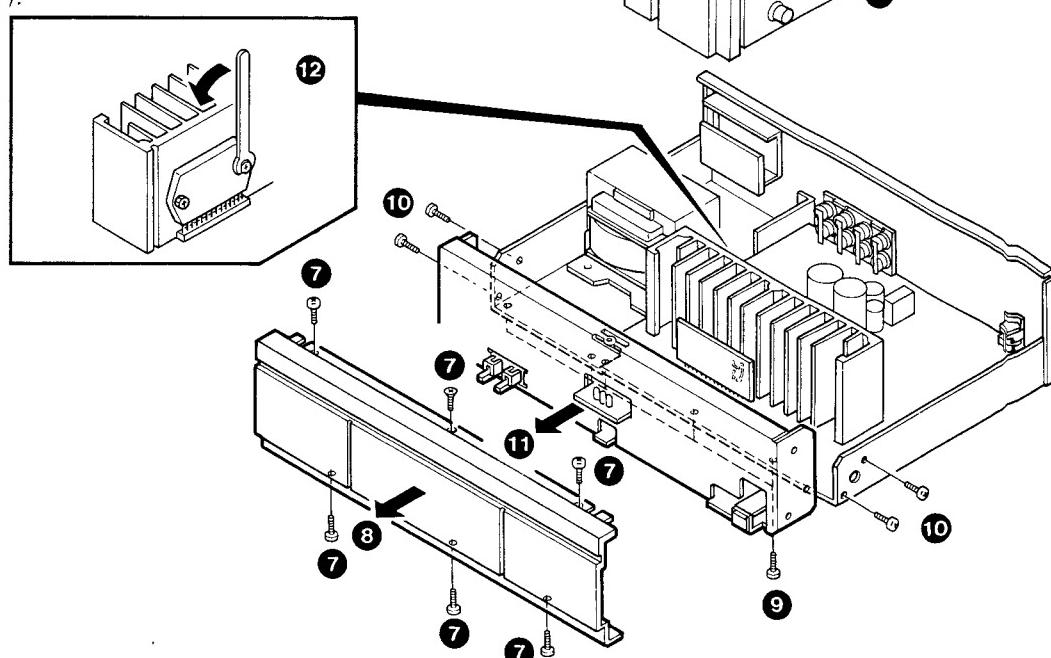
1. Remove the metallic cabinet. Remove 2 screws at the chassis R (unified with the bottom plate) ( 1 ), and 3 screws at the rear panel ( 2 ).
2. Remove 1 screw at the right-forehand side ( 3 ) and 1 screw in the middle of large capacitors ( 4 ).



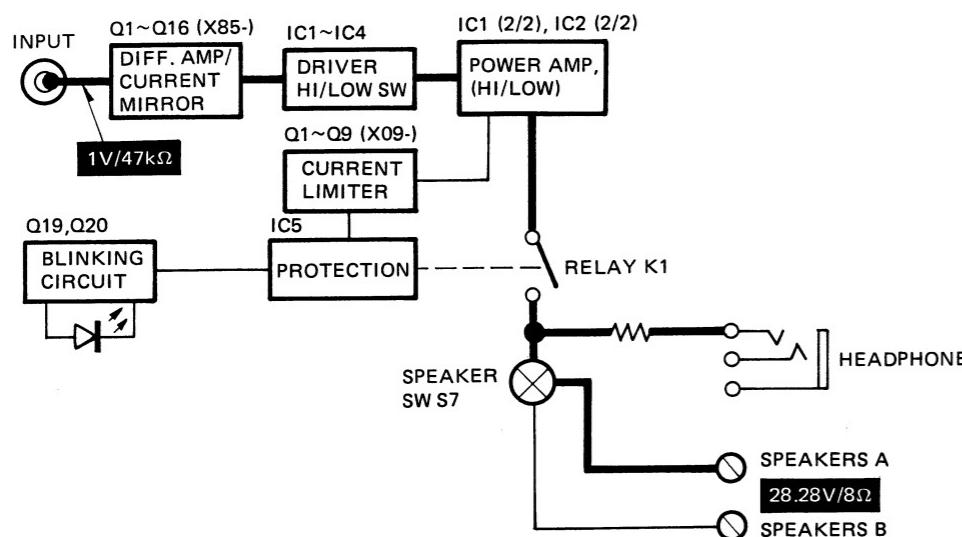
3. Remove 6 screws ( 5 ).  
Slide and remove the bottom plate as shown by the arrow ( 6 ).



4. Remove 6 screws ( 7 ), remove the panel ( 8 ).  
Remove 5 screws at bottom side of the sub panel ( 9 ) and 4 screws at both sides of the sub panel ( 10 ), remove the sub panel ( 11 ).  
For replacement of the driver/final IC, use a hex-wrench (W05-0022-00) ( 12 ).



## BLOCK LEVEL DIAGRAM/CIRCUIT DESCRIPTION



## ADJUSTMENT/REGLAGE/ABGLEICH

## ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMPLIFIER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
1	IDLE CURRENT	—	Connect a DC voltmeter across CP1 (L) CP2 (R)	VOLUME: 0	VR1 (L) VR2 (R)	9mV	

## REGLAGE

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DE L'AMPLIFICATEUR	POINS L'ALIGNEMENT	ALIGNER POUR	FIG.
1	COURANT DE POLARISATION	—	Connecter un voltmètre CC sur CP1 (G) CP2 (D)	VOLUME: 0	VR1 (G) VR2 (D)	9mV	

## Description of Components

## AUDIO (X09-2120-72)

Components	Functions	Operations
Q1~Q9	Current limiter	Final protection circuit (Q7, Q9 for high voltage resistance) for over-load drive.
Q11,Q12	Current regulator circuit	Ripple elimination circuit inserted into the B line towards the class A stage.
Q19,Q20	Multivibrator	After the power is switched ON until relay is activated, or when the protection circuit is operating due to circuit malfunction, this circuit functions to flash the LED indicating malfunction of the amp.
IC1,IC2	Power IC	
IC3,IC4	Switching IC	High/Low switching circuit for the DLD.
IC5	Protection IC	This circuit disconnects the relay when the amp is malfunctioning.

## POWER AMP (X85-1020-11)

Components	Functions	Operations
Q1,Q2	Class A 1st stage differential amp	
Q3~Q6	Class A 1st stage cascode circuit	
Q7~Q10	2nd stage differential amp	
Q11~Q14	3rd stage differential amp	
Q15,Q16	Current mirror circuit	

## ABGLEICH

NR.	GEGENSTAND	EINGANGSEINSTELLUNG	AUSGANGSEINSTELLUNG	VORSTARKEREINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB.
1	LEERLAUFSTROM	—	Einen Gleichspannungsmesser über CP1 (L) CP2 (R) anschließen.	VOLUME: 0	VR1 (L) VR2 (R)	9mV	

# BASIC M1A BASIC M1A

## PC BOARD

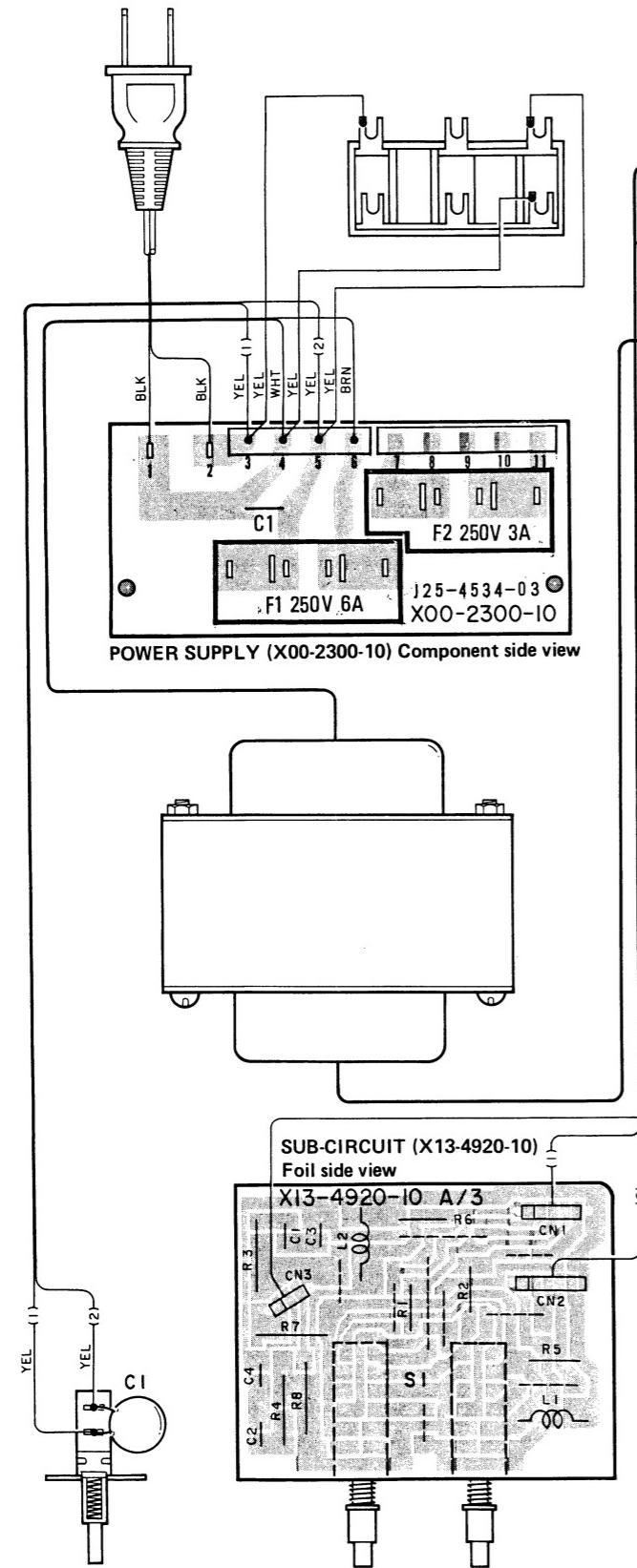
	E	C	B
Q3~Q6	4.7V	—	—
Q7,Q8	11.9V	-27.7V	11.5V
Q9,Q10	—	-26.8V	11.5V
Q11,Q12	-64.4V	27.8V	-63.9V
Q13,Q14	-64.4V	-1.6V	—
Q15,Q16	—	1.7V	62.2V

	E	C	B
Q19	—	25.5V	—
Q20	2.2V	2.2V	—

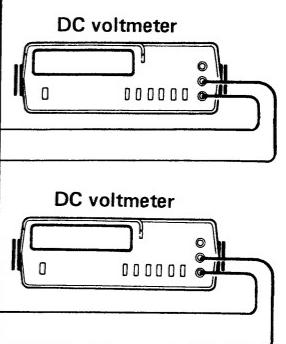
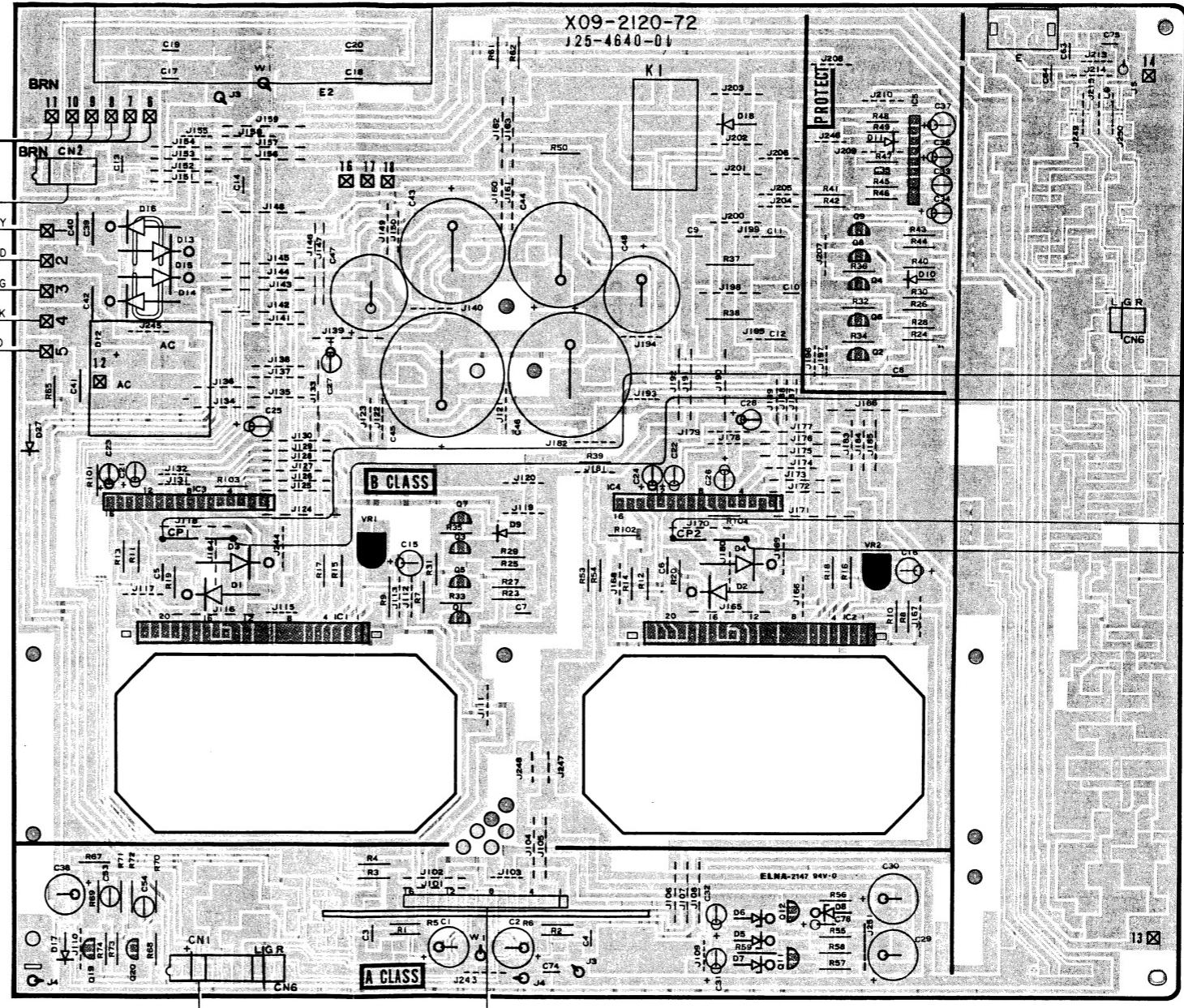
	IC1	IC2
1	1.7V	1.7V
3	-1.6V	-1.6V
7	-65V	-65V
9	-65V	-65V
10	65V	65V
11	34V	65V
19	65V	65V

	IC3	IC5
6	-34V	0V
11	34V	0V
2	0V	2.5V
4	2.5V	6
6	0.7V	0.7V
7	2V	2V
8	3.3V	3.3V

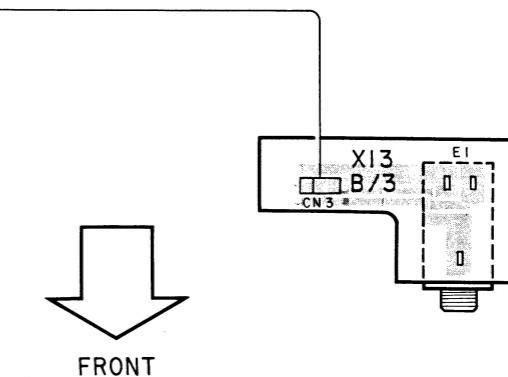
	IC4
4	-65V
6	-34V
11	34V



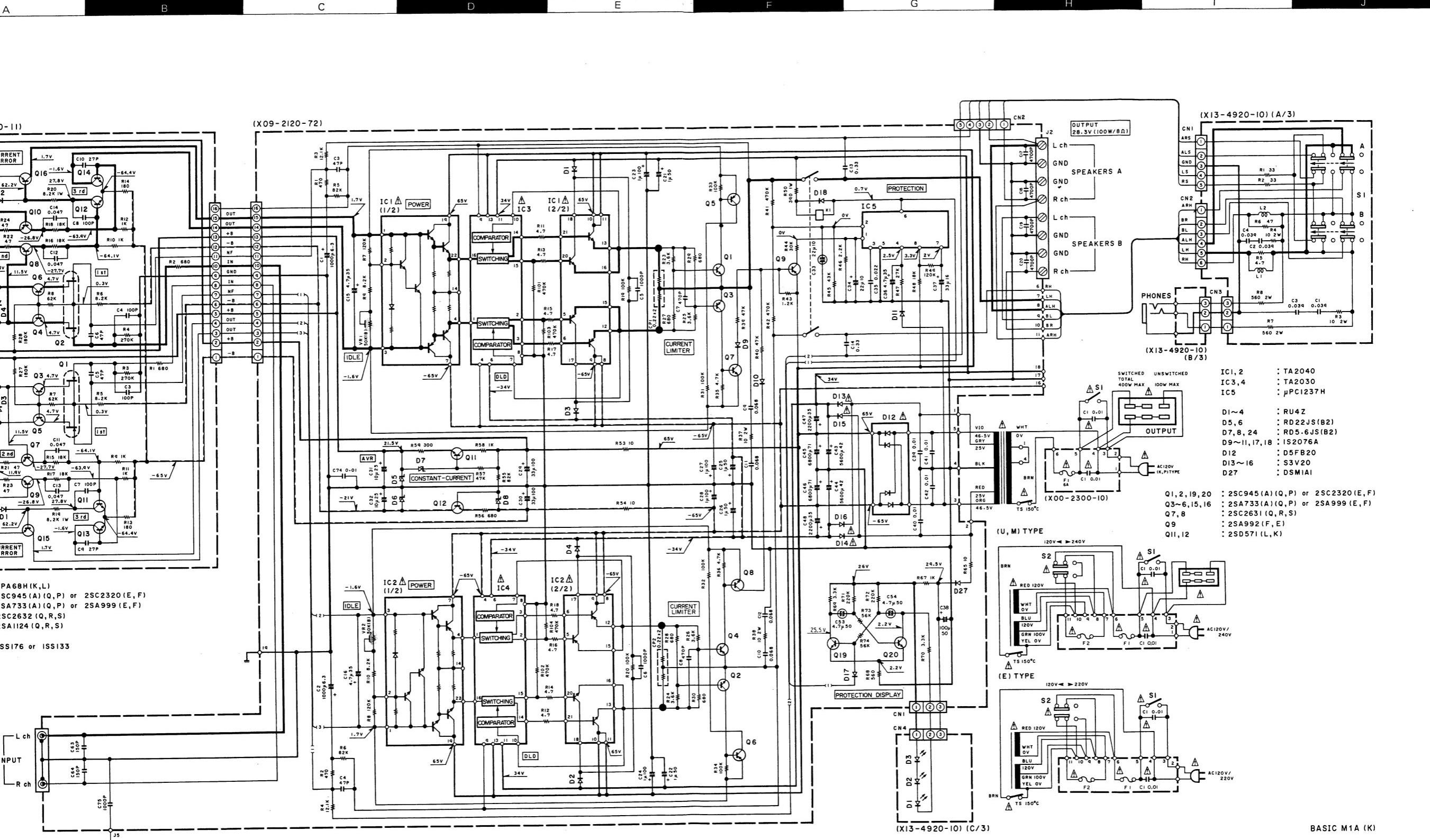
AUDIO (X09-2120-72) Component side view



X85-1020-11 POWER AMP (X85-1020-11) Component side view



Refer to the schematic diagram for the values of resistors and capacitors.  
The PC board drawing is viewing from the side easy to check.



2SA1124 2SC2320  
2SA733 2SC2631  
2SA992 2SC2632  
2SA999 2SC945

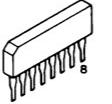
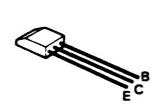
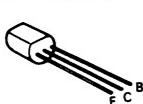
2SD571

μPA68H

μPC1237H

TA2030

TA2040



**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

- DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.
- Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance sans signal d'entrée. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.
- Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Voltmeter ohne Eingangssignal gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

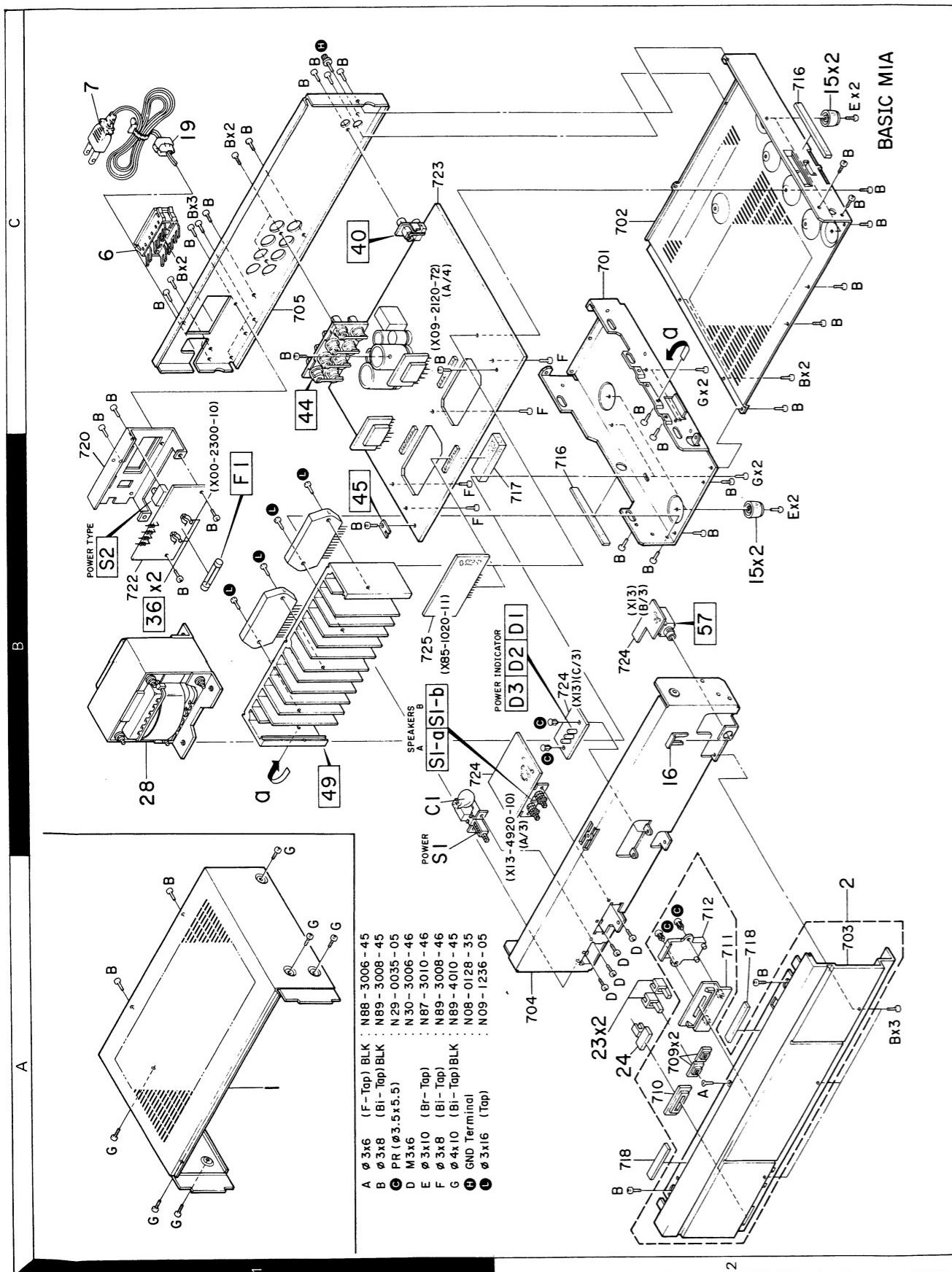
**BASIC M1A**

**KENWOOD**

# BASIC M1A

# BASIC M1A

## EXPLODED VIEW



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## PARTS LIST

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Desti- nation 仕向	Re- marks 備考
<b>BASIC M1A</b>						
1	1A	*	A01-1410-01	METALLIC CABINET	KPUM UEXE T	
2	1B	*	A20-4380-02	PANEL ASSY	K UUE	
2	1B	*	A20-4380-02	PANEL ASSY	UUE	
2	1B	*	A20-4381-02	PANEL ASSY	X P	
-	-	-	B46-0092-03	WARRANTY CARD	E T	
-	-	-	B46-0094-03	WARRANTY CARD	K UUE	
-	-	-	B46-0095-03	WARRANTY CARD	UE X	
-	-	-	B46-0096-13	WARRANTY CARD	P M	
-	-	-	B46-0121-03	WARRANTY CARD	TP E	
-	-	*	B46-0122-13	WARRANTY CARD	K UUE	
-	-	*	B46-0123-03	WARRANTY CARD	UE X	
-	-	*	B50-5707-00	INSTRUCTION MANUAL (ENGLISH)	PMXE KPUM UEXE	
-	-	*	B50-5707-00	INSTRUCTION MANUAL (ENGLISH)	TP E	
-	-	*	B50-5708-00	INSTRUCTION MANUAL (FRENCH)	U M	
-	-	*	B50-5709-00	INSTRUCTION MANUAL (SPANISH)	U E	
-	-	*	B50-5710-00	INSTRUCTION MANUAL (ENG) TRIO	U E	
-	-	*	B50-5711-00	INSTRUCTION MANUAL (D,I,G)	U E	
-	-	*	B58-0222-14	CAUTION CARD (PRE-SET 220V)	U E	
-	-	*	B58-0223-04	CAUTION CARD (PRE-SET 120V)	U E	
-	-	*	B58-0245-33	CAUTION CARD (FTZ)	U E	
-	-	*	B58-0269-04	CAUTION CARD	K UUE	
-	-	*	B59-0092-00	SERVICE DIRECTORY	UE X	
△ C1	2A	C91-0023-05	CERAMIC 0.01UF	AC250V	UMUE KPXTE	
△ C1	2A	C91-0647-05	CERAMIC 0.01UF	P		
△ 6	3A	E03-0068-05	AC OUTLET	P KUMUE		
△ 6	3A	E03-0069-05	AC OUTLET	K E		
△ 7	3A	E30-0181-05	AC POWER CORD	T E		
△ 7	3A	E30-0459-05	AC POWER CORD	U M		
△ 7	3A	E30-0587-15	AC POWER CORD	U E		
△ 7	3A	E30-0812-05	AC POWER CORD	U E		
△ 7	3A	E30-0974-05	AC POWER CORD	P X		
△ 7	3A	E30-1341-05	AC POWER CORD	X P		
△ F1	2A	F05-3022-05	FUSE (250V 3A)	UMUE XTE		
△ F1	2A	F05-3121-05	FUSE (SEMKO) (250V T3.15A)	UMUE KP		
△ F1	2A	F05-6021-05	FUSE (250V 6A)	U E		
△ F1	2A	F05-6027-05	FUSE (UL) (250V 6A)	U E		
△ F1	2A	F05-6321-05	FUSE (SEMKO) (250V T6.3A)	KP E		
-	-	*	H01-5486-04	ITEM CARTON CASE	KPUM UEXE T	
-	-	*	H01-5486-04	ITEM CARTON CASE		
-	-	*	H01-5487-04	ITEM CARTON CASE		
-	-	*	H10-1802-02	POLYSTYRENE FOAMED FIXTURE		
-	-	*	H10-1803-02	POLYSTYRENE FOAMED FIXTURE		
-	-	*	H25-0224-04	PROTECTION BAG (800X400)		
-	-	*	H25-0232-04	PROTECTION BAG (235X350)		
△ 15	2B, 3B	J02-0127-05	FQNT			
△ 16	2B	J21-3326-05	JACK MOUNTING HARDWARE			
△ 19	3A	J42-0083-05	POWER CORD BUSHING			
-	-	J61-0307-05	WIRE BAND			
-	-	J61-0307-05	WIRE BAND			
△ 23	1B	K27-0896-04	KNOB (BUTTON) SPEAKERS			
△ 24	1B	K27-0964-04	KNOB (BUTTON) POWER			

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Ref. No. 参照番号	Address 位 置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
△ 28	2A		L01-2472-05	POWER TRANSFORMER	XT	
△ 28	2A		L01-2478-05	POWER TRANSFORMER	UMUEE	
△ 28	2A		L01-6731-05	POWER TRANSFORMER	KP	
C H			N29-0035-05 N08-0128-35	PUSH RIVET (Ø3.5X5.5) BINDING POST (GND)		
△ S1	2A		S40-1073-05	PUSH SWITCH (MAIN POWER)	UMUEE	
△ S2	2A		S31-2083-05	SLIDE SWITCH (POWER TYPE)		
<b>POWER SUPPLY (X00-2300-10)</b>						
△ C1			C91-0023-05	CERAMIC 0.01UF	AC250V U	
△ C1			C91-0647-05	CERAMIC 0.01UF	P KPXE	
36	2A		J13-0041-05	FUSE CLIP	KPU	
36	2A		J13-0054-05	FUSE CLIP	XE	
<b>AUDIO (X09-2120-72)</b>						
C1 ,2		*	CEO4FW0J102MEL	ELECTRO 1000UF	6.3WV	
C3 ,4			CC45FSL1H470J	CERAMIC 47PF	J	
C5 ,6			CK45FB2H102K	CERAMIC 1000PF	K	
C7 ,8			CK45FB1H471K	CERAMIC 470PF	K	
C9 -12			CF92FV1H683J	MF 0.068UF	J	
C13 ,14			CF92FV1H334J	MF 0.33UF	J	
C15 ,16			CEO4FW1V4R7MEL	ELECTRO 4.7UF	35WV	
C17 -20			CK45FF1H472Z	CERAMIC 4700PF	Z	
C21 ,22			CEO4FW1H010MEL	ELECTRO 1.0UF	50WV	
C23 ,24			CEO4FW2A010MEL	ELECTRO 1.0UF	100WV	
C25 ,26			CEO4FW1H010MEL	ELECTRO 1.0UF	50WV	
C27 ,28			CEO4FW2A010MEL	ELECTRO 1.0UF	100WV	
C29 ,30			CEO4KW2A330M	ELECTRO 33UF	100WV	
C31 ,32			CEO4FW1E100MEL	ELECTRO 10UF	25WV	
C33			CEO4HW1A220MEL	NP-ELEC 22UF	10WV	
C34			CEO4FW1A220MEL	ELECTRO 22UF	10WV	
C35			CF92FV1H223J	MF 0.022UF	J	
C36			CEO4FW1V4R7MEL	ELECTRO 4.7UF	35WV	
C37			CEO4KW1C330MEL	ELECTRO 33UF	16WV	
C38			CEO4FW1H101MEL	ELECTRO 100UF	50WV	
C39 -42		*	CK45FE2H103P	CERAMIC 0.010UF	P	
C43 ,44		*	C90-1315-05	ELECTRO 5600UF	56WV	
C45 ,46		*	C90-1313-05	ELECTRO 6800UF	71WV	
C47 ,48			CEO4FW1V222MEL	ELECTRO 2200UF	35WV	
C53 ,54			CEO4HW1E4R7MEL	NP-ELEC 4.7UF	25WV	
C63 ,64			CC45FSL1H151J	CERAMIC 150PF	J	
C69 ,70			CK45FB1H102K	CERAMIC 1000PF	K	
C74			CK45FF1H103Z	CERAMIC 0.010UF	Z	
C75			CK45FB1H102K	CERAMIC 1000PF	K	
40	3A		E13-0217-05	PHONE JACK (2P) INPUT		
44	3A		E20-0821-05	LOCK TERMINAL BOARD (BP)		
45	2A	*	E23-0125-05	SPKR TERMINAL (GND)		
49	2A	*	F01-0637-03	HEAT SINK		
-			J61-0307-05	WIRE BAND		
L			N09-1236-05	TAPPING SCREW (Ø3X16)		
CP1 ,2			R90-0187-05	MULTI-COMP 0.22X2	K 5W	
R3 ,4			RN14BK2E121FTS	RN 120 F	1/4W	

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R11 -18			RD14AB2E4R7JTS	FL-PRQQF RD 4.7	J 1/4W	
R27 -30			RD14AB2E681JTS	FL-PRQQF RD 680	J 1/4W	
R37 ,38			RS14DB3D100JTE	FL-PRQQF RS 10	J 2W	
R50			RS14DB3A391JTE	FL-PRQQF RS 390	J 1W	
R53 ,54			RD14AB2E100JTS	FL-PRQQF RD 10	J 1/4W	
R56		*	RD14AB2E681JTS	FL-PRQQF RD 680	J 1/4W	
R58		*	RD14AB2E102JTS	FL-PRQQF RD 1.0K	J 1/4W	
R59		*	RD14AB2E301JTS	FL-PRQQF RD 300	J 1/4W	
R65		*	RD14AB2E100JTS	FL-PRQQF RD 10	J 1/4W	
R67		*	RD14AB2E102JTS	FL-PRQQF RD 1.0K	J 1/4W	
VR1 ,2			R12-4306-05	TRIMMING POT. (50K) IDLING		
K1			S51-2045-05	MAGNETIC RELAY		
D1 -4			RU4Z	DIODE		
D5 ,6			RD22JS(B2)	ZENER DIODE		
D7 ,8			RD5.6JS(B2)	ZENER DIODE		
D9 -11			1S2076A	DIODE		
D12			D5FB20	DIODE		
D13 -16			S3V20	DIODE		
D17 ,18			1S2076A	DIODE		
D27			DSM1A1	DIODE		
IC1 ,2			TA2040	IC(DRIVER,FINAL)		
IC3 ,4			TA2030	IC(LQ/HI SWITCHING)		
IC5			UPC1237H	IC(PROTECTION)		
Q1 ,2			2SC2320(E,F)	TRANSISTOR		
Q1 ,2			2SC945(A)(Q,P)	TRANSISTOR		
Q3 -6			2SA733(A)(Q,P)	TRANSISTOR		
Q3 -6			2SA999(E,F)	TRANSISTOR		
Q7 ,8			2SC2631(Q,R,S)	TRANSISTOR		
Q9			2SA992(F,E)	TRANSISTOR		
Q11 ,12			2SD571(L,K)	TRANSISTOR		
Q19 ,20			2SC2320(E,F)	TRANSISTOR		
Q19 ,20			2SC945(A)(Q,P)	TRANSISTOR		
<b>SUB-CIRCUIT (X13-4920-10)</b>						
D1 -3			B30-0431-05	LED(LN21CPH)		
C1 -4			CF92FV1H393J	MF 0.039UF	J	
57	2B		E11-0104-15	PHONE JACK (3P) HEADPHONE		
L1 ,2			L39-0080-15	PHASE-COMPENSATION COIL		
R1 ,2			RD14GB2E330JTS	FL-PRQQF RD 33	J 1/4W	
R3 ,4			RS14KB3D100JTE	FL-PRQQF RS 10	J 2W	
R5 ,6		*	RD14GB2E4R7JTS	FL-PRQQF RD 4.7	J 1/4W	
R7 ,8		*	RS14KB3D561JTE	FL-PRQQF RS 560	J 2W	
S1	2A	*	S42-2133-05	MULTIPLE PUSH SW (SPEAKERS)		
<b>POWER AMP (X85-1020-11)</b>						
C3 ,4			CC45FSL1H101J	CERAMIC 100PF	J	
C5 ,6			CC45FSL1H470J	CERAMIC 47PF	J	
C7 ,8			CC45FSL1H101J	CERAMIC 100PF	J	
C9 ,10			CC45FSL1H270D	CERAMIC 27PF	J	
C11 -14			CK45FF1H473Z	CERAMIC 0.047UF	Z	
C15 ,16			CK45FB1H102K	CERAMIC 1000PF	K	

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# BASIC M1A

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R13 ,14	*	RD14AB2E181JTS	FL-PROOF RD 180	J 1/4W		
R19 ,20		RS14DB3AB22JTE	FL-PROOF RS 8.2K	J 1W		
R35 -38		RD14AB2E751JTS	FL-PROOF RD 750	J 1/4W		
D1 -4		ISS133	DINODE			
D1 -4		ISS176	DINODE			
Q1 ,2		UPA68H(K,L)	DUAL FET			
Q3 -6		2SC2320(E,F)	TRANSISTOR			
Q3 -6		2SC945(A)(Q,P)	TRANSISTOR			
Q7 -10		2SA733(A)(Q,P)	TRANSISTOR			
Q7 -10		2SA999(E,F)	TRANSISTOR			
Q11 -14		2SC2632(Q,R,S)	TRANSISTOR			
Q15 ,16		2SA1124(Q,R,S)	TRANSISTOR			

## SPECIFICATIONS

### Power output

110 watts\* per channel minimum RMS, both channels driven, at 8 ohms from 20Hz to 20,000Hz with no more than 0.004% total harmonic distortion.

### Clipping Power

at 8 ohms . . . . . 115 watts/ch. (1kHz)  
at 4 ohms . . . . . 150 watts/ch. (1kHz)

### Clipping Headroom

at 8 ohms . . . . . 0.19dB  
at 4 ohms . . . . . 1dB

### Dynamic Power

at 8 ohms . . . . . 162 watts/ch. (1kHz)  
at 4 ohms . . . . . 210 watts/ch. (1kHz)

### Dynamic Headroom

at 8 ohms . . . . . 1.7dB  
at 4 ohms . . . . . 2.4dB

### Total Harmonic Distortion

(20Hz to 20,000Hz)

Input to SPEAKER output 0.004% at rated power into 8 ohms  
0.003% at 1/2 rated power into 8 ohms  
0.001% at rated power into 8 ohms at 1kHz

Intermodulation Distortion . . . 0.004% at rated power into (60Hz : 7kHz = 4 : 1) 8 ohms  
0.004% at 1 watt into 8 ohms

Damping Factor . . . . . More than 1,000 at 50Hz

### Transient Response

Rise Time . . . . . 1.6μs

Frequency Response . . . . . 1Hz to 300kHz, +0, -3dB

Signal-to-Noise Ratio . . . . . 120dB (IHF-A Curve)

Speaker Impedance . . . . . Accept 4 ohms to 16 ohms

Input Sensitivity/Impedance

INPUT . . . . . 1V/47 kohms

### General

Power Consumption . . . . . 3.3A (Rated power at 8 ohms)

A.C. Outlets . . . . . Switched 2, Unswitched 1

Dimensions . . . . . W : 440 mm (17-5/16")

H : 133mm (5-1/4")

D : 318mm (12-1/2")

Net Weight . . . . . 9.1kg (20.1lb)

Gross Weight . . . . . 10.4kg (22.9lb)

\* Measured pursuant to Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifier in U.S.A.

### Note :

We follow a policy of continuous advancements in developments. For this reason specifications may be changed without notice.

### Note :

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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UE AAFES(Europe) X: Australia M: Other Areas

△ indicates safety critical components.